

CLAIMS

1. Optical detector device for a meter, comprising a consumption indicator formed of a rotating disc (4) provided  
5 with at least one so-called active sector and optical elements of emitting type and receiving type opposite said disc, whose received optical signal is processed to infer at least the number of rotations of said disc, characterized in that said disc comprises at least three sectors (4A,4B,4C) with a centre  
10 angle of  $120^\circ$ , each of the sectors being coated in a different color on its surface facing outwardly from the meter (1), and said optical elements comprise at least one emitting element (6) emitting a light beam of at least two different colors, and a receiving element (7) receiving a reflected light beam.

15 2. Device as in claim 1, characterized in that said optical emitter (6) operates sequentially.

3. Device as in either of the preceding claims, characterized in that the positioning of said optical elements (6,7) is such that the angle of incidence (B) of the optical  
20 beam emitted and received by the optical elements is less than  $60^\circ$ .

4. Device as in any of the preceding claims characterized in that it comprises a collimator device (8) for the optical beam.

25 5. Device as in claim 4, characterized in that said collimator device (8) comprises slits (9) limiting stray interference between light beams.

6. Fluid meter (1) comprising a rotating disc (4) that is part of an optical detector device as in any of the  
30 preceding claims.

7. Detection module (5) intended to cooperate with a fluid meter (1) and comprising said optical elements (6, 7) that are part of a device as in any of claims 1 to 5.

8. Module as in claim 7, characterized in that it also comprises an optical beam collimation device (8).